

# Anti-D2 subunit of Photosystem II, DE-loop antibody

Catalog: PHY0364S

## Product Information

<b>Description:</b>	Rabbit polyclonal antibody
<b>Background:</b>	The D1/D2 (PsbA/PsbD) reaction center heterodimer binds P680, the primary electron donor of PSII as well as several subsequent electron acceptors. D2 is needed for assembly of a stable PSII complex.
<b>Synonyms:</b>	PsbD
<b>Immunogen:</b>	KLH-conjugated synthetic peptide derived from DE-loop of D2 subunit in <i>Arabidopsis thaliana</i> ATCG00270.
<b>Form:</b>	Lyophilized
<b>Quantity:</b>	150 µg
<b>Purification:</b>	Serum
<b>Reconstitution:</b>	Reconstitution with 150 µl of sterile water. "Note: please spin tube briefly prior to opening it to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tube".
<b>Stability &amp; Storage:</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 6 months, -20 to -70°C under sterile conditions after reconstitution. 1 month, 2 to 8°C under sterile conditions after reconstitution.
<b>Shipping:</b>	The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.

## Application Information

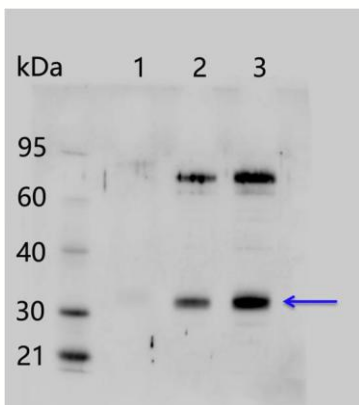
<b>Recommended Dilution:</b>	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
<b>Expected/apparent MW:</b>	39.5 / 33 kDa
<b>Confirmed Reactivity:</b>	<i>Arabidopsis thaliana</i>
<b>Predicted Reactivity:</b>	Among 25 analyzed species, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in <i>Oryza sativa Indica Group</i> , <i>Glycine max</i> , <i>Solanum tuberosum</i> , <i>Cucumis sativus</i> , <i>Sorghum bicolor</i> , <i>Physcomitrella patens</i> , <i>Triticum</i>

Research Use Only

*aestivum*, *Zea mays*, *Hordeum vulgare* subsp. *Vulgare*, *Nicotiana tabacum*, *Setaria viridis*, *Spinacia oleracea*, *Populus trichocarpa*, *Vitis vinifera*, *Chlamydomonas reinhardtii*, *Medicago truncatula*, *Physcomitrella patens*, *Leymus chinensis*.

For more species homologues information, please contact tech support at [tech@phytoab.com](mailto:tech@phytoab.com).

## Application Example



1-3 is thylakoid membrane protein from *Arabidopsis thaliana* leaf containing 0.1 µg, 0.25 µg, and 0.5 µg of chlorophyll, respectively.

**Electrophoresis:** 15% SDS-Urea-PAGE

**Transfer:** blotting to NC (nitrocellulose) membrane for 1h.

**Blocking:** 5% skim milk at RT or 4°C for 1h.

**Primary antibody:** 1:2000 dilution overnight at 4°C.

**Secondary antibody:** 1:20000 dilution using Goat Anti-Rabbit IgG H&L (HRP) (Cat# PHY6000).

**Detection:** using chemiluminescence substrate and image were captured with CCD camera.